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COMPRAIL - Computer Aided Railway Engineering

Computer simulation of train-track-bridge interaction. The aim of the paper is to present the approach for simulation of dynamics of the systems consisting of railway vehicle, flexible track and flexible foundation. Railway vehicles are considered as multibody systems that include rigid or flexible bodies, joints and force

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elements.

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computer-aided numerical simulation stands as

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an innovative tool to overcome the above limitations. If proper assumptions and suitable resolutions are provided, the simulation may allow to reproduce the boundary conditions and the degradation processes of a railway ballast layer effectively. Following the Monte-Carlo

Simulation of Railway Vehicle Dynamics Using Universal ...

Simple Computer Aided Railway Modeller: Home Extensions Model Trains Simulator: Model Trains Simulator - Power Edition. The Model Trains Simulator (MTS) is intended for 2D and 3D simulations of train operations on the track

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plan, designed in SCARM.

**A computer-aided multi-train simulator for rail
traffic**

**Computer aided casting methoding of railway
system St. M. Dobosza, *, A. Chojeckia, **, R.
Skoczylasb, *** a Faculty of Foundry
Engineering, University of Sciences and
Technology AGH, Reymonta 23, 30-059 Kraków,
Poland b KOM-ODLEW, Bluszczowa 25F, 30-439
Kraków, Poland Corresponding author.**

**COMPUTER AIDED SIMULATION ANALYSIS FOR
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Specialist in simulation of railway dynamics. 1 History. MEDYNA was developed within a research program "Limits of the wheel-rail system" which was sponsored by the German government. ... The general goal for the computer program was to develop a system capable to simulate nearly every design railway engineers might think off.

**SCARM - Model Trains Simulator SE
Change of the running surface of the railway wheels' head does not only influence the dynamic properties of the vehicle, but also has a significant economical, safety and ecological**

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influence in the process of the rail transport. One possible way to predict these undesired phenomena is a computer-aided simulation analysis.

**Computer Aided Simulation In Railway
Computer-Aided Simulation in Railway
Dynamics. Antonio Lopez-Gomez. CRC Press,
Oct 1, 1987 - Computers - 448 pages. 1 Review.
Computer-Aided Simulation in Railway
Dynamics defines simulation models and shows
how simulation results can be used.**

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Simple Computer Aided Railway Modeller - SCARM Software

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**Computer simulation and modeling in railway applications ...
Simulation input, such as track element, train**

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and operation components of the ABO-KIR railway line, has been entered to the computer program to construct the simulation model. The simulation process has been carried out for the existing operation system to construct a graphical model of the case-study track including line alignment and train movements, as well as to evaluate the existing ...

A computer-aided model for the simulation of railway ...

**Stastniak P, Smetanka L, Drozdziel P.:
Computer aided simulation analysis for wear investigation of railway 65 shows the horizontal**

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track profile, which were by wear simulation used with aim to determine the wear of the vehicle on the track. The length of the model track is 400 km and from picture is clearly that the profile is very diverse.

A Computer-Aided Model for the Simulation of Railway ...

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An electrified railway system includes complex interconnections and interactions of several sub-systems. Computer simulation is the only viable means for system evaluation and analysis. This paper discusses the difficulties and requirements of effective simulation models for this specialized industrial application; and the development of a general-purpose multi-train simulator.

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An alternate double - single track proposal for high-speed peripheral railway lines, Computer-Aided Civil and Infrastructure Engineering 30 (2015), 181-201. [14] CENELEC, EN 50641: Railway Applications - Fixed installations - Requirements for the validation of simulation tools used for the design of traction power supply systems, CENELEC: European Committee for Electrotechnical Standardization ...

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Computer simulation is the only viable means for system evaluation and analysis. This paper discusses the difficulties and requirements of effective simulation models for this specialized industrial application; and the development of a general-purpose multi-train simulator.

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